- 15. The method according to claim 13 further comprising the step of isolating the nucleus of the mononuclear cell before transfer of said nucleus into the recipient.
 - 16. The method according to claim 13 in which the mammal is an ungulate species.
- 17. The method according to claim 13 further comprising the step of genetically modifying the nucleus of the mononuclear cell.
 - 18. The method according to claim 13 in which the recipient is an enucleate oocyte.
- 19. The method of reconstructing a mammalian embryo comprising reconstructing a first generation embryo by the steps of a method according to claim 13 and further comprising transferring a cell from the said first generation embryo to a suitable recipient to form a second generation embryo.
- 20. The method of reconstructing a mammalian embryo comprising reconstructing a first generation fetus by development of a first generation embryo reconstructed by a method of claim 13, preparing fetal fibroblast cultures therefrom and transferring cells from said fetal fibroblast cultures to a suitable recipient to form a second generation embryo.
- 21. The method according to claim 20 further comprising the step of genetic modification of the cells of the fetal fibroblast cultures prior to second generation cloning.

- 22. A method of preparing a mammal, the method comprising: reconstructing a mammalian embryo using a method according to claim 13; allowing the embryo so produced to develop to term; and optionally breeding from the mammal so formed.
- 23. A method of preparing embryonic stem cell lines, comprising reconstructing a mammalian embryo using a method according to claim 13 and transferring the embryo to a culture system.
- 24. A method of preparing embryonic stem cell lines, comprising reconstructing a mammalian embryo using a method according to claim 13; isolating the inner cell mass of the embryo from the embryo and transferring the inner cell mass to a culture system.
- 25. The method according to claim 23 further comprising the step of genetic modification of the stem cells.--